

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A peripheral rewinding machine for producing logs ~~(L1, L2)~~ of wound web material ~~(N)~~, comprising:

[[•]] - a winding cradle ~~(11)~~ to wind ~~the~~ web material and form said logs, including ~~a~~ at least a first winding element ~~(1)~~ around which said web material ~~(N)~~ is fed;

[[•]] - a feeder ~~(101)~~ to feed tubular winding cores ~~(A1, A2, A3, A4, A5)~~, around which said logs are to be wound, towards said winding cradle;

[[•]] - means to sever the web material upon termination of winding each log ~~(L1, L2)~~;

[[•]] - at least ~~a~~ one first glue dispenser ~~(105)~~ including a mechanical member that touches the web material at the end of winding of said each log ~~(L1, L2)~~, to apply a first glue ~~(C2)~~ to a portion of said web material, in proximity to a severing line, along which the web material is severed upon termination of winding ~~a~~ said each log to form a final free edge and an initial free edge, said first glue gluing the final free edge of the log;

characterized in that wherein said mechanical element ~~(105)~~ member is integral with said feeder ~~(101)~~.

2. (Currently Amended) Rewinding machine as claimed in claim 1, ~~characterized in that~~ wherein said feeder comprises an oscillating or rotating seat ~~(101A)~~, with which said mechanical element ~~(105)~~ member is integral.

3. (Currently Amended) A rewinding machine for producing logs ~~(L1, L2)~~ of wound web material ~~(N)~~, comprising:

[[•]] - a winding cradle ~~(11)~~ to wind ~~the~~ web material and form said logs, including ~~a~~ at least ~~a~~ one first winding element ~~(1)~~ around which said web material ~~(N)~~ is fed;

[[•]] - means to sever the web material upon termination of winding each log ~~(L1, L2)~~, including a rotating severing element ~~(31)~~, cooperating with said first winding element ~~(1)~~;

[[•]] - at least ~~a~~ one first glue dispenser ~~(31, 31B)~~ including a mechanical member that touches the web material at ~~the~~ end of winding of said each log ~~(L1, L2)~~, to apply a first glue ~~(e2)~~ to a portion of said web material, in proximity to a severing line, along which the web material is severed upon termination of winding ~~a~~ said each log to form a final free edge and an initial free edge, said first glue gluing the final free edge of the log;

~~characterized in that~~ wherein said mechanical member of said first glue dispenser is integral with said severing element ~~(31)~~ or makes is part of said severing element ~~(31)~~.

4. (Currently Amended) Rewinding machine as claimed in claim 3, ~~characterized in that~~ wherein said severing element is controlled such that when said severing element ~~(31)~~ is in contact with said web material ~~it~~ said severing element has a peripheral speed differing in respect of said first winding element ~~(1)~~.

5. (Currently Amended) Rewinding machine as claimed in claim 3 or 4, ~~characterized in that~~ wherein said severing element ~~(31)~~ is integral to an assembly of rods ~~(31B)~~ at the ends of which glue ~~soaking~~ absorbent pads ~~(41)~~ are integral.

6. (Currently Amended) Rewinding machine as claimed in ~~one or more of the previous claims,~~ ~~characterized in that~~ claim 3, wherein said mechanical ~~element member~~ is a rotating element.

7. (Currently Amended) Rewinding machine as claimed in ~~one or more of the previous claims,~~ ~~characterized in that~~ claim 3, wherein said first glue dispenser applies said first glue to a portion of the web material wound around said first winding element ~~(1)~~.

8. (Currently Amended) Rewinding machine as claimed in ~~one or more of the previous claims,~~ ~~characterized in that~~

claim 3, wherein said mechanical ~~element member~~ has at least one pad ~~(41)~~ suitable to pick up said first glue and to touch said web material, to transfer to ~~it~~ said pad at least part of the glue picked up.

9. (Currently Amended) Rewinding machine as claimed in ~~one or more of the previous claims, characterized in that it comprises~~ claim 1 or 3, further comprising a second gluing unit ~~(29)~~ to apply a second glue to tubular winding cores.

10. (Currently Amended) Rewinding machine as claimed in ~~one or more of the previous claims, characterized by~~ claim 9, further comprising a rolling surface ~~(15)~~ defining with said first winding element ~~(1)~~ a channel ~~(19)~~ to feed said winding cores ~~(A1-A4)~~; and wherein said winding cores are fed into said channel and made to roll inside ~~it~~ the channel before the web material is severed.

11. (Currently Amended) Rewinding machine as claimed in ~~one or more of the previous claims, characterized in that~~ claim 3, wherein said first glue dispenser applies said first glue along longitudinal bands, continuous or broken, on said web material.

12. (Currently Amended) Rewinding machine to produce logs of web material wound on a winding core, comprising:

[[•]] - winding elements to wind ~~the~~ web material and form said logs;

[[•]] - a severing element to sever the web material upon termination of winding each log, to form a final edge of ~~the~~ a finished log and an initial edge of a subsequent log;

[[•]] - a feeder to feed tubular winding cores towards said winding elements;

[[•]] - at least a first glue dispenser to apply a first glue to said winding cores, ~~according to as~~ at least a one longitudinal band[[,]];

[[•]] - said feeder and said severing element being disposed and controlled so that upon termination of winding said each log, the web material is severed and said longitudinal band of glue applied to said core is brought into contact with said web material after it the web material has been severed, so that at least part of said first glue is transferred to the web material in ~~the~~ a vicinity of the final free edge of the finished log, to glue the final free edge of the log.

13. (Currently Amended) Rewinding machine as claimed in claim 12, ~~characterized in that it is a peripheral rewinding machine~~ further comprising a winding cradle with at least a first winding element around which said web material is fed.

14. (Currently Amended) Rewinding machine as claimed in claim ~~12 or 13~~, ~~characterized in that wherein~~ the core applies at least a part of said first glue to a portion of ~~the~~ web material fed around said first winding element.

15. (Currently Amended) Rewinding machine as claimed in ~~claims 12, 13 or 14~~, ~~characterized in that it comprises~~ claim 12, further comprising a second glue dispenser to apply a second glue to said tubular winding cores~~[[,]]~~ to fasten the initial free edge to said cores.

16. (Currently Amended) Rewinding machine as claimed in ~~one or more of claims 13 to 15~~, ~~characterized in that~~ claim 13, wherein said severing element rotates and cooperates means to ~~sever the web material upon termination of winding each log comprise a rotating severing element,~~ cooperating with said first winding element.

17. (Currently Amended) Rewinding machine as claimed in ~~one or more of claims 13 to 16~~, ~~characterized in that~~ claim 13, wherein when said severing element is in contact with said web material, ~~it has~~ said severing element having a peripheral speed differing in respect of the peripheral speed of said first winding element.

18. (Currently Amended) Rewinding machine as claimed in ~~at least~~ claim 13, ~~characterized by~~ further comprising a rolling surface defining with said first winding element a

channel with an inlet for inserting said winding cores; and ~~in that~~ wherein said winding cores are fed into said channel and made to roll inside ~~it~~ the channel, to bring said first glue in contact with the web material fed around said winding element.

19. (Currently Amended) Machine as claimed in claim 18, ~~characterized in that~~ wherein said first winding element has a suction portion, upstream of ~~the~~ an inlet of said channel, to hold the initial edge and the final edge on ~~the~~ a surface of said winding element, said severing element being disposed to act upstream of said channel.

20. (Currently Amended) Method for producing logs of wound web material, comprising ~~the phases of~~:

- [[•]] - winding a quantity of web material ~~(N)~~ to form a first log ~~(f1)~~ in a winding area;
- [[•]] - upon termination of winding said first log ~~(f1)~~, severing the web material to create a final edge ~~(f1)~~ of the first log and an initial edge ~~(f1)~~ to form a second log;
- [[•]] - applying a first glue to a portion of the web material destined to remain wound on the first log, in proximity to the final free edge, which is glued to the first log upon termination of winding,

characterized in that wherein said first glue is applied to the web material by means of a feeder of said

tubular cores, during insertion of a core towards said winding area.

21. (Currently Amended) Method for producing logs of wound web material, comprising ~~the phases of:~~

[[•]] _ winding a quantity of web material ~~(N)~~ to form a first log ~~(11)~~ in a winding area;

[[•]] _ upon termination of winding said first log ~~(11)~~, severing the web material to create a final edge ~~(1f)~~ of the first log and an initial edge ~~(1i)~~ to form a second log;

[[•]] _ applying a first glue to a portion of the web material destined to remain wound on the first log, in proximity to the final free edge, which is glued to the first log upon termination of winding,

characterized in that wherein said first glue is applied to the web material by ~~means of~~ a severing element that also severs the web material upon termination of winding each log.

22. (Currently Amended) Method as claimed in claim 21, ~~characterized in that wherein~~ said web material is logs ~~are~~ wound around tubular winding cores ~~(A1-A4)~~.

23. (Currently Amended) Method as claimed in claim 20 or 22, ~~characterized in that~~ further comprising applying a second glue ~~is applied~~ to said tubular winding cores to fasten the initial free edge of the web material.

24. (Currently Amended) Method as claimed in ~~one or more of claims 20 to 23, characterized in that~~ claim 20 or 21, wherein said first glue is applied along a longitudinal line.

25. (Currently Amended) Method as claimed in ~~one or more of claims 20 to 24, characterized in that~~ claim 20 or 21, wherein said logs are wound with a peripheral winding system.

26. (Currently Amended) Method as claimed in ~~one or more of claims 20 to 26, characterized in that~~ claim 20 or 21, wherein said first glue is applied to the web material before severing of the web material.

27. (Currently Amended) Method as claimed in ~~one or more of claims 20 to 27, characterized in that~~ claim 20 or 21, wherein said first glue is a liquid or semi-liquid glue.

28. (Currently Amended) Method as claimed in ~~one or more of claims 20 to 28, characterized in that~~ claim 20 or 21, wherein said first glue is ~~a non-liquid glue, such as a~~ strip of double-sided adhesive material.

29. (Currently Amended) Method to produce logs of wound web material, comprising ~~the phases of:~~
[>] - winding a quantity of web material around a first winding core to form a first log in a winding area;

[>] _ upon termination of winding said first log, severing the web material to produce a final edge of the first log and an initial edge to form a second log;

[>] _ applying a first glue to a second winding core, said first glue being applied according to at least ~~a~~ one longitudinal band essentially parallel to the axis of said core;

[>] _ after severing of said web material, bringing said longitudinal band of first glue applied to the second core into contact with said web material;

[>] _ transferring at least part of the first glue from said core to said web material, in proximity or at ~~the~~ a level of said final free edge, to close the final free edge of the first log.

30. (Currently Amended) Method as claimed in claim 29, wherein said initial edge is made to adhere to said second core by ~~means of~~ said first glue.

31. (Currently Amended) Method as claimed in claim 29, ~~characterized in that~~ further comprising applying a second glue ~~is applied~~ to said ~~tubular~~ winding cores to fasten the initial free edge of the web material.

32. (Currently Amended) Method as claimed in ~~one or more of claims 29 to 31,~~ claim 29,

wherein said logs are wound with a peripheral winding system comprising at least a first winding element.

33. (Currently Amended) Method as claimed in ~~one or more of claims 29 to 32~~, characterized in that claim 29, wherein said first glue is a liquid or semi-liquid glue.

34. (Currently Amended) Method as claimed in ~~one or more of claims 29 to 33~~, characterized by claim 29, further comprising providing a first winding element and a rolling surface defining, with said first winding element, a channel to introduce said cores, with an inlet inside which said cores are fed, and ~~in that~~ wherein said web material is severed upstream of said inlet.

35. (Currently Amended) Method as claimed in claim 34, ~~characterized in that~~ wherein the final edge and the initial edge of said web material after severing are held on ~~the~~ a surface of said winding element through suction, to convey said final edge and said initial edge towards the inlet of said channel.

36. (Currently Amended) Method as claimed in ~~one or more of claims 29 to 35~~, characterized in that claim 29, wherein the web material is severed by pinching said web material between a first winding element around which ~~it~~ the web material is fed and a severing element, moving at a speed differing from ~~the~~ speed of the winding element.